



# Aviation Education News



Distributed Quarterly to Promote Aviation Education and Awareness in Virginia

May 2001

## *In this Issue:*

**Virginia Students Depict  
Their "Dream to Fly" ..... Page 1**

**President's Notes ..... Page 2**

**Aviation Art Contest  
Winners - Category I ..... Page 3**

**Aviation Art Contest  
Winners - Category II..... Page 4**

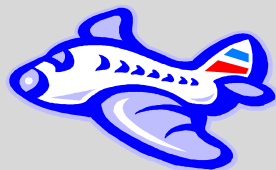
**Aviation Art Contest  
Winners - Category III  
..... Page 5**

**Aviation Education  
Corner ..... Page 6**

**2001 National Congress on  
Aviation and Space  
Education ..... Page 7**

**Web Sites ..... Page 7**

**Calendar of  
Events ..... Page 8**



## **Virginia Students Depict Their "Dream to Fly"**

Students from schools across the Commonwealth submitted entries to the 2001 Virginia Aviation Art Contest. The theme for this year's competition was "My Dream to Fly."

Over 120 students submitted artwork created in pen, crayon, water colors, and a number of other permanent media. Their interpretation of the theme included airplanes of all types, helicopters, spaceships, flying horses and other animals, and even free flying people. The artwork was colorful, creative, and unique.

Once again members of the American Society of Aviation Artists served as judges for the Virginia competition. Special thanks go out to Luther Gore, Bill Kluge, and Christopher Jones who had the difficult task of picking our winners.

Each year, in support of the International Aviation Art Contest (see inside), the Virginia Department of Aviation runs the Virginia contest. Statewide winners earn the opportunity to participate in a United States national competition and those winners participate in the International Contest.

Entry forms for the 2002 Virginia Aviation Art Contest will be mailed to each public school in the Commonwealth in August or early September.

**Virginia's 2001 Aviation Art Contest winners are located on pages 3-5.**



## **National Congress on Aviation and Space Education (NCASE) Survey**

Would you like to qualify to receive one of three prizes? Get \$100, \$75, and \$50 gift certificates from the Civil Air Patrol Aerospace Education Materials Store! All you have to do is go online and complete a simple ten-minute survey. Your important input will help us ensure our annual Aerospace Education conference meets the needs of all attendees. Please go to [Http://intercom.virginia.edu/SurveySuite/Surveys/NCASE](http://intercom.virginia.edu/SurveySuite/Surveys/NCASE) and complete the survey today. Don't forget the next NCASE: April 3-6, 2002.

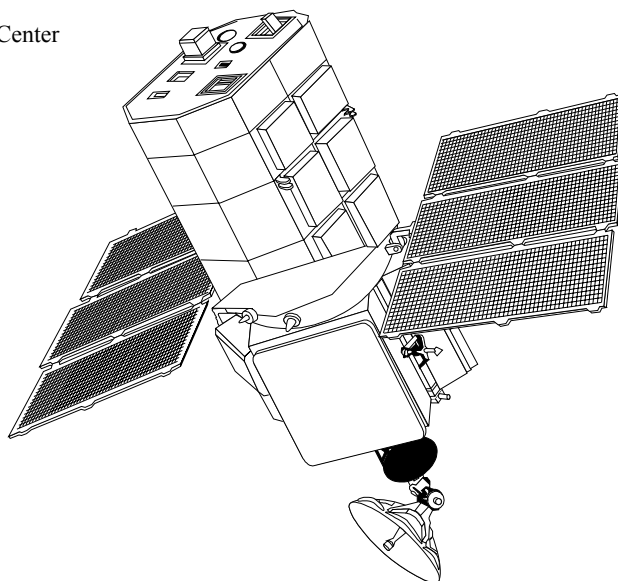
## PRESIDENT'S NOTES

The NASA Langley Research Center's Office of Education (OEd) is working in collaboration with the Virginia Department of Aviation which is an excellent way to maintain two-way communication between federal and state aviation education concerns.

We are trying to help folks become more literate on the use and benefits of the Internet. Along these lines I suggest that you access the following sites for some great ideas:

NASA Langley, Office of Education	<a href="http://edu.larc.nasa.gov/">http://edu.larc.nasa.gov/</a>
U. S. Centennial of Flight Commission	<a href="http://www.centennialofflight.gov/">http://www.centennialofflight.gov/</a>
Careers in Aeronautics	<a href="http://wings.ucdavis.edu/Careers/index.html">http://wings.ucdavis.edu/Careers/index.html</a>
NASA - Aerospace Technology Enterprise	<a href="http://www.hq.nasa.gov/office/aero/">http://www.hq.nasa.gov/office/aero/</a>
Small Aircraft Transport System	<a href="http://sats.larc.nasa.gov/">http://sats.larc.nasa.gov/</a>
American Institute of Aeronautics and Astronautics	<a href="http://www.aiaa.org">http://www.aiaa.org</a>
Aviation Connections (St. Cloud U.)	<a href="http://condor.stcloud.msus.edu/aviation/avitconc.html">http://condor.stcloud.msus.edu/aviation/avitconc.html</a>
EAA Young Eagles	<a href="http://www.youngeagles.com/">http://www.youngeagles.com/</a>
Wind Tunnel Experiments for Grades 8-12	<a href="http://www.lerc.nasa.gov/WWW/K-12/WindTunnel/WTEpKids/index.htm">http://www.lerc.nasa.gov/WWW/K-12/WindTunnel/WTEpKids/index.htm</a>
K-8 Aeronautics Internet Textbook	<a href="http://muttley.ucdavis.edu/index.html">http://muttley.ucdavis.edu/index.html</a>
Stop Dreaming. Start Flying	<a href="http://www.beapilot.com/">http://www.beapilot.com/</a>

Peter D. Thomas  
(Old Dominion University Research Foundation)  
Office of Education  
NASA Langley Research Center



**VASEF AVIATION EDUCATION NEWS**  
is published quarterly in support of aviation education in the Commonwealth of Virginia by the Virginia Department of Aviation.

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Please send story ideas, photographs, calendar events, and other items for possible inclusion to:

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wilson@doav.state.va.us (E-mail)  
<http://www.doav.state.va.us> (Internet)



### VASEF PURPOSE

The Forum is a non-profit organization to promote and foster aviation and space education among public and private schools, colleges and universities, and community and civic groups, and to promote increased public understanding of aviation and space and their economic, social, and career values in our society and in the Commonwealth of Virginia.

# Virginia Aviation Art Contest

## Category I Ages 6-9



### First Place

**Meg Law**  
Age 9  
Roanoke, Virginia



### Second Place

**Chasity Toms**  
Age 8  
Brookneal, Virginia



### Third Place

**Rosa Lee Harkrader**  
Age 9  
Louisa, Virginia



# Virginia Aviation Art Contest

## Category II Ages 10-13

### First Place

**Hailey Doss**

Age 10

Boones Mill, Virginia



### Second Place

**Grace Oxley**

Age 10

Gordonsville, Virginia

(a repeat winner from  
2000)



### Third Place

**Tyler Sapp**

Age 10

Richmond, Virginia



## National Air and Space Museum Calendar

Wednesday, May 9, 2001

### 2001 Exploring Space Lecture Series "Life at the Extreme"

Mike Meyer (NASA) will discuss the enormously varied conditions under which life can exist on Earth, and the implications of this "life at the extreme" for the existence of life elsewhere in the universe.

7:30 p.m. in the Einstein Planetarium

Thursday, May 24, 2001

### Charles A. Lindbergh Memorial Lecture R.A. "Bob" Hoover

The accolades have piled up for R.A. "Bob" Hoover during more than six decades of unmatched performance in the cockpit. From self-taught air show master, to WWII army pilot, to test pilot on the X-1 project, his accomplishments have led to honors and awards including recognition in the National Aviation Hall of Fame, the Distinguished Flying Cross, twice elected president of the Society of Experimental Test Pilots, and three times named the most outstanding air show performer of the year.

8:00 p.m. in the Langley IMAX Theater.

Wednesday, June 6, 2001

### Wernher von Braun Memorial Lecture An Evening with Sir Arthur D. Clarke

Renowned author and visionary Sir Arthur C. Clarke will present this year's lecture. In a video presentation created especially for this evening, Sir Clarke will share his keen observations on modern science, technology and our culture. Following the film, Clarke will chat live from his home in Sri Lanka with a panel of distinguished writers and scientists, as well as answer questions from the audience.

8:00 p.m. in the Langley IMAX Theater.

*Tickets are required for this lecture and will be available beginning Monday, May 7, through tickets.com. There is no charge from the Smithsonian although a small service charge from tickets.com will apply.*

Wednesday, June 13, 2001

### 2001 Exploring Space Lecture Series Clues From the Geologic Record of Mars

Because Mars appears to have retained most of its original crust dating back billions of years, the Martian landscape provides an almost complete record of the geologic events that have occurred there. Scientists interpreting this complex data have produced two competing scenarios for the early history of Mars. Robert Craddock, geologist with the museum's Center for Earth and Planetary Studies, will discuss what these findings mean in terms of the likelihood of life on the red planet.

7:30 p.m. in the Einstein Planetarium.

Saturday, June 30, 2001

### Monthly Star Lecture Astrobiology and the Evidence of Life in the Cosmos

Harold Geller, professor at George Mason University will explain the science of astrobiology, the study of possibilities for life elsewhere in the universe. He will detail the latest findings from the scientific community and the reaction to this new data. Public telescope viewing afterwards (weather permitting).

6:00 p.m. in the Einstein Planetarium.

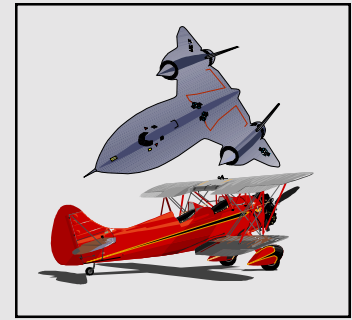
# Virginia Aviation Art Contest

## Category III Ages 14-17

### First Place

**Tammy Coover**

Age 16  
Sterling, Virginia



### VIRGINIA AVIATION MUSEUM CALENDAR

**April 28, 2001**  
**Flight Day**

A fun and informative day for the whole family. Join Ken Hyde, of the Wright Experience, for a presentation about the Wright Brothers. See an authentic late 1910-11 Wright Brothers engine and watch it run. Other artifacts and replicas from the Wright Brothers will be on display. Listen to Lou Schalk, the first SR-71 test pilot and see video footage from the first Blackbird flights. View remote control aircraft on static display and other aviation related activities and exhibits.

The Guest Lecture Series has been temporarily discontinued. It is hoped that the program will resume this fall.

For further information on events and schedules, call (804) 236-3622.



### Second Place

**Cletus B. Womack, Jr.**

Age 16  
Hampton, Virginia



### Third Place

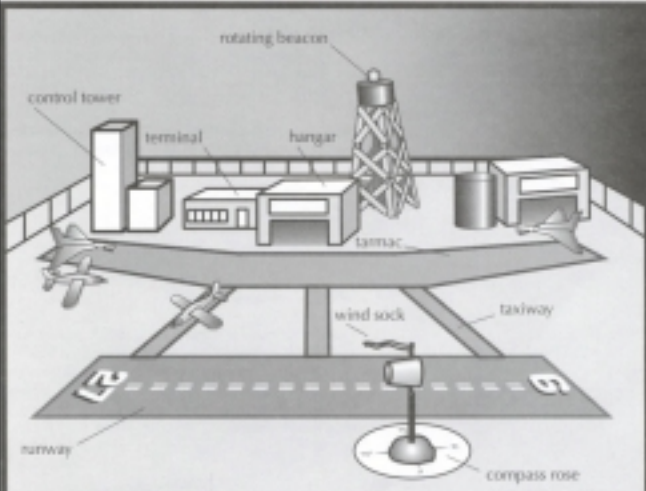
**Anthony House**

Age 14  
Hampton, Virginia

**Space Day is  
May 3, 2001**

<http://www.spaceday.com/>

## Aviation Education Corner

<p><b>Objectives</b></p> <p><b>Let's Build a Table Top Airport</b></p> <p>The students will:</p> <ul style="list-style-type: none"> <li>Design and build a model airport.</li> <li>Learn the components of an airport.</li> <li>Use the model to demonstrate airport operations.</li> </ul> <p><b>Standards and Skills</b></p> <p><b>Science</b></p> <ul style="list-style-type: none"> <li>Science and Technology</li> <li>Science in Personal and Social Perspectives</li> </ul> <p><b>Science Process Skills</b></p> <ul style="list-style-type: none"> <li>Measuring</li> <li>Making Models</li> <li>Investigating</li> <li>Communicating</li> </ul> <p><b>Mathematics</b></p> <ul style="list-style-type: none"> <li>Communication</li> <li>Reasoning</li> </ul> <p><b>Background</b></p> <p>A model airport can provide students with an accurate representation of a real airport. Real airports provide a place for airplanes to takeoff and land. Many communities have small airports to serve small or general aviation airplanes.</p> <p>Some cities have large airports with long runways to accommodate commercial airline service. All airports have certain things in common such as one or more runways, hangars, a wind sock, and a taxiway. Larger airports have parking lots and passenger terminals.</p>	<p>Buildings at airports serve many different purposes and needs. Buildings where airplanes are stored and maintained are called hangars. The terminal is a building where passengers can get flight information and buy tickets. Other types of businesses found at an airport may include flight instruction, the sale of fuel, aircraft parts, and pilot supplies. The construction of a model airport will help students identify and understand problems that face architects and planners of real airports. Models allow planners to identify potential problems with airport location, layout, and design before expensive construction begins.</p> <p><b>Materials</b></p> <ul style="list-style-type: none"> <li>Table approximately 2m by 1m or larger</li> <li>Small miscellaneous boxes (shoe box size)</li> <li>Thin cardboard</li> <li>Markers</li> <li>Masking Tape</li> <li>Bulletin Board Paper</li> <li>Model Airplanes, Cars and Trucks</li> </ul> <p><b>Preparation</b></p> <p>Provide a table to simulate a site in the community where students can start construction of a model airport. Multiple airport models can be constructed by teams.</p> <p>Explain that an airport location requires flat terrain unobstructed by buildings, trees, and towers. Also mention that airports need to be located away from residential areas because of noise factors.</p> <p><i>Activity from Exploring Aeronautics: A Curriculum in Aeronautics for the 5th through 8th grades (NASA)</i></p>
<p><b>Activity</b></p> <ol style="list-style-type: none"> <li>1. Cut and place a long, narrow rectangular piece of bulletin board paper on the table to represent the location of a runway. Label this component of an airport.</li> <li>2. Place several model airplanes at the airport site. The model airplanes can be brought from home, made in class from paper, or cut out of magazines. Discuss with the students the potential hazard to airport operations if airplanes are parked on a runway. Ask students to suggest safe and accessible place to park airplanes.</li> <li>3. Cut and place bulletin board paper on the table to represent airplane parking ramps. Label the parking ramp. Place the model airplanes on the ramp.</li> <li>4. Provide a place on the airport grounds to park the cars and trucks that bring people to the airport. Place model cars and trucks in the parking lot.</li> <li>5. Small boxes can be used as buildings for the model airport. Label each type of building (terminal building, hangar) or write a business name on the building. Construct and place the hangars that will be used for airplane service, maintenance, and storage. Label the hangar.</li> <li>6. Provide a facility at the airport to fuel airplanes.</li> <li>7. Name the airport.</li> </ol> <p><b>(Look for extensions to this activity in the August edition of the VASEF Newsletter.)</b></p>	<p><b>Assessment</b></p> <ol style="list-style-type: none"> <li>1. Invite other students, teachers, or school officials to view and identify the model.</li> <li>2. Ask a student to role-play the manager of the new model airport, providing a tour of the facility to a group of citizens. The student should use correct terminology to describe the airport.</li> <li>3. Have a student simulate the first of inaugural takeoff and landing from the new airport using a model airplane. Ask the student to describe the event from a pilot's perspective.</li> </ol> 



## National Congress on Aviation and Space Education Features Inspiring Speakers

The 2001 National Congress on Aviation and Space Education featured a packed schedule of well-known, motivational speakers. Pilot Dick Rutan (of around-the-world Voyager fame) spoke about a recent trip to the North Pole. Illustrating his talk with slides and a video, Rutan conveyed to the educators the sense of adventure and human need to explore that pushes us on to new frontiers.

NASA Astronaut Dr. Yvonne Cagle (M.D.) also spoke about the benefits of exploration and her goal to conduct beneficial medical experiments about the International Space Station.

Dr. June Scobee Rodgers spoke about making something good and enduring come out of tragedy. She, with the support of all the Space Shuttle Challenger families, is the driving force behind the Challenger Center program. This program, which benefits thousands of children per year, features a simulated space mission and encourages teamwork and builds enthusiasm among the young people who take part.

Gale Halvorsen was the "Berlin Candy Bomber." He flew supplies into Berlin during the Berlin Airlift. These pilots of the Airlift were all volunteers who had only recently come home from flying during World War II. When Halvorsen became impressed with the remarkable children who were living in Berlin during this difficult time, he got the idea to drop small parachutes containing candy to them.

Among other exceptional speakers were Mary Feik, who has had an exceptional career in aviation -- including working as an aircraft restorer for the National Air and Space Museum and Bill Lishman whose experience flying with geese inspired the film "Fly Away Home."

Noted Test Pilot Scott Crossfield presented his annual Teacher of the Year Award and a distinguished group of educators were inducted into the Crown Circle (a most prestigious honor for aviation educators.).

The Congress was held in Minneapolis, Minnesota this year and quite a bit of snow was still on the ground, however, the hospitality of the area was wonderful. There were several field trips including one to the Science Museum of Minnesota which is an incredible facility (only a couple of years at its current location overlooking the Mississippi River in St. Paul).

Next year's Congress will be held in Washington, D. C. April 3-6, 2002.

### Aviation & Space



### Web Sites

NASAO

(see National Art Contest Winners)

[www.nasao.org](http://www.nasao.org)

Federation Aeronautique Internationale  
(education)

<http://www.fai.org/education/>

National Congress on Aviation  
and Space Education

[www.capnhq.gov/conference](http://www.capnhq.gov/conference)

National Aeronautic Association (NAA)  
(art contest awards)

<http://www.naa-usa.org/website/html/awardsset.html>

Virginia Department of Aviation

[www.doav.state.va.us](http://www.doav.state.va.us)

## SCIENCE MUSEUM OF VIRGINIA CALENDAR

### IMAX FILMS

T-REX: Back to the Cretaceous - thru June 8  
Africa's Elephant Kingdom - thru April 27  
Super Speedway - April 28 thru Sept. 14

### MULTIMEDIA SHOWS

Star Date: Native Skies - thru Sept. 16  
The Night Sky - Daily

### EXHIBITIONS

Invasion of the Dinosaurs - thru June 3

LIVESKY: Informal "live" planetarium  
presentation of the month's celestial events.  
Third Friday of every month.

SKYWATCH: Third Friday of every month  
(weather permitting) on the front lawn.

24-Hour Information: (804) 367-0000

Box Office: (804) 367-1080

24-Hour Skywatch Information: (804) 367-8277

24-Hour TDD Information: (804) 367-9760

General Information - TDD: (804) 367-6552

Group Scheduling: (804) 367-6552

Home Page: <http://www.smv.org>

## VIRGINIA AIR AND SPACE CENTER CALENDAR

### VISITING EXHIBITS:

The Robot Zoo - May 26-September 9  
Star Trek: Federation Science - thru April  
30, 2001

### IMAX FILMS:

Yellowstone - thru Sept. 9, 2001

\*NSYNC: Bigger Than Live - thru May 24,  
2001

### SIGMA SERIES LECTURES:

**Challenges and Opportunities in Aero-  
nautical Design, Engineering and  
Manufacturing** - Professor Earll Murman -  
May 1, 2001, 7:30 p.m.

**Robots Playing Soccer** - Professor  
Rafaello D'Andrea - June 5, 2001, 7:30 p.m.

### Live Science Demonstrations

**Rovin' Robots** - Saturdays 11:00 a.m. to  
4:00 p.m. and Sundays Noon to 4:00 p.m.

Call (804) 727-0900 for showtimes

Visit the Center's Home Page:

<http://www.vasc.org>

Visit the Teacher Resource Center Home  
Page:

<http://seastar.vasc.mus.va.us>

## Calendar of Events

### May 5, 2001

**Danville 2001 Air, Car and Boat Show** will take place at the Danville Regional Airport. For more information contact Lane Rodgers at (804) 799-5110.

### May 12-13, 2001

**Air Power over Hampton Roads Air Show** at Langley Air Force Base.

### May 19-20, 2001

**The EAA Chapter 186 Spring Fly-In** will be held at the Winchester Regional Airport. For more information contact Ms. Tangy Mooney at (703) 780-6329.

### June 9-10, 2001

**Fifth Annual Virginia State EAA Fly-In** will be held at the Dinwiddie County Airport. For more information contact Judy Sparks at (703) 590-9112 or e-mail [jhsparks01@aol.com](mailto:jhsparks01@aol.com).

### July 24-30, 2001

**EAA Airventure 2001** will take place in Oshkosh, Wisconsin.

### July 14, 2001

**3rd Annual Tazewell County Airport Fly-In** will be held from 10:00 a.m. - 4:00 p.m. For more information contact Buford Cordle, Jr. at (540) 963-4509 or e-mail [mgr6v3@netscope.net](mailto:mgr6v3@netscope.net).

### For more events check out:

<http://www.doav.state.va.us/calendar.htm>.

## Aviation Education Supporters:

VASEF projects are funded by our membership fees and by donations from our member organizations. We would appreciate your support through membership in our organization.

\_\_\_\_\_ Regular Membership \$25.00 annually (July - Dec. \$12.50)

\_\_\_\_\_ Non-Profit Organization \$25.00 annually (July - Dec. \$12.50)

\_\_\_\_\_ Corporate Membership \$100.00 annually (July - Dec. \$50.00)

\_\_\_\_\_ New Member \_\_\_\_\_ Renewal

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Name of Organization: \_\_\_\_\_

Occupation: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Please Return to: Tom Tyndall, VASEF Treasurer  
5702 Gulfstream Road  
Richmond, Virginia 23250-2422

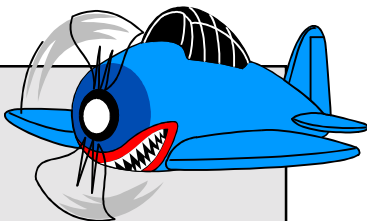


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**Inside:**

**RESULTS  
OF THE  
2001  
AVIATION ART CONTEST**



**Please Post for Teachers**



